

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

[CTGCAGTCTATTGGATGAAGAGTGTACATATTCATATAATTCTTAAAGTAGGCAGAAAT
TAAAGGGGATGGAAATATATACTTGTACTGCCTTAGATAGTCACCAGGATGTTGTTACAG
TCTTCGTTTACTGCTTCTGAAGCCTATAC TGATAGAATTAATAAAATACTGAGAGAGAGA
GAGAGGGACAGAGAGAGAGAGGGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
GAGAGAGAGAGAGAAGAGAAGAAAACAAGGTSAAGCCATCTGCTTAACCTATGTCCACAT
TCTCTCAAGAGCATTGTCCATTTTGTAGAATTATCTATATTGTTAAGAATCATCTCCATT
GTTAAGATTTTGTGGGCTGGAGATCCAGCTCTGTTGATAAAGTGCTTGCCTAACATGCAT
GAAGTCCTAGGTTCTATTCCCAAGGCTACATAAAACCTTGTGTTGTGATGAATGCCTGTA
ATCCCAGTACGCAGCAAGGAGAGACAAGGAGGATCAGAAGCTTAAGGACATCATTTTGTA
CATAGTGAGTTTGTAGGAAAGCTGAGGTTACATGGAACCTCTCTCTCTCAAAAAACAAAC
AAAACAAAACAAAACCTTCTACTAATATCTGGATTCTGTTGATTTTGTAGGATCTCAAG
AGCATGCTGACGTCATTTATGTGTTCCATCAGATACAGACAGAGATCATAAACATTTAA
CTCATTTGATTATATGTTGAGAGTTGTCCCTCAAGAACCAATGGCCAAACATCCACTGAGG
ATACACGGAAGCTTAGAAAACTCTAATTAAAAATCCTGACATAATGGAAGTGCTCACAAA
CCAGCC] AACACCTAATAAAACCAGTGCGCAAGAGCAACAACCTCGGCATTTTCTACTTTG
AATCCTGCCAACCCCCCTTTCTAGCCATACTCTTGCTACTCATAGCATATACTGTGATCC
TAATCATGGGCATTTTGTGAAACCTCTCTCTTATCATCATCATCTTTAAGAAACAGAGAG
AAGCTCAAAATGTTACCAACATACTGATT [GCCAACCTGTCCCTCTCTGACATCTTGGTG
TGTGTCATGTGCATCCCTTTTACGGTCATCTACACTCTGATGGACCACTGGGTATTTGGG
AACACTATGTGTAAACTCACTTCCTACGTGCAAAGTGTCTCAGTTTCTGTGTCCATATTC
TCCCTTGTGTTGATTGCTATTGAACGATATCAGCTGATTGTGAACCCCCGTGGCTGGAAA
CCCAGAGTAGCTCATGCCATTTGGGGGATCATCTTGATTGGCTCATTTCTCTGACATTG
TCTATTCCTTATTCCTGTCTACCACTCACCAATGAGCCCTTTCATAATCTCTCTCTC
CCTACTGACATCTACACCCACCAGGTAGCTTGTGTGGAGATTTGGCCTTCTAAACTGAAC
CAACTCCTCTTTTCTACATCATTATTTATGCTCCAGTATTTTGTCCCTCTGGGTTTCATT
CTTATCTGCTACCTGAAGATCGTTCTCTGCCTCCGAAAAAGAACTAGGCAGGTGGACAGG
AGAAAAGGAAAAATAAGAGCCGCTCTCAATGAGAACAAGAGGGTAAATGTGATGTTGATTCC
ATCGTAGTGACTTTTGGAGCCTGCTGGTTGCCCTTGAACATTTTCAATGTCATCTTCGAC
TGGTATCATGAGATGCTGATGAGCTGCCACCACGACCTGGTATTTGTAGTTTGCCACTTG
ATTGCTATGGTTTCTACTTGCATAAATCCTCTCTTTTATGGATTTCTCAACAAAACTTC
CAGAAG] GATCTAATGATGCTTATTCACCACTGTTGGTGTGGTGAACCTCAGGAAAGTTA
TGAAAAATATGCCATGTCTACTATGCACACAGATGAATCCAAGGGATCATTTAAACTGGC
TCACATACCAACAGGCATATAGAACTGGTAAGCAAAATCAAAGCCCTTCTGTTATGAAA
GAAAGAGAAGAAATAGTATGGAATAGGGCAAGGTGCAGAGGAAGCCAGACTTAAACACAT
AATATCTTTGGGCCAGTTTGTCTTAAAGTTAAGCATGTCTACTCCATTCAGCCATAGAA
CACACAGAGATTTATCCCTACCCCTTTCTTTTTCCTTTTGAAGAATAATACTTAAACA
ACCTAGACATCATTACTGAGGAAGAGAAACAAAATGAGAGAGCATACAAGGACAGCAGAG
ATGTCTGGGGTACAAAATTCACGTTATTCGCTGGAATAGCTAGAAAGTTATTAGTTGTGC
TGCAG

FIGURE 2A

Gene Sequence Structure

*

846 bp

Sequence Deleted

1047 bp

Size of CDS: 2281 bp

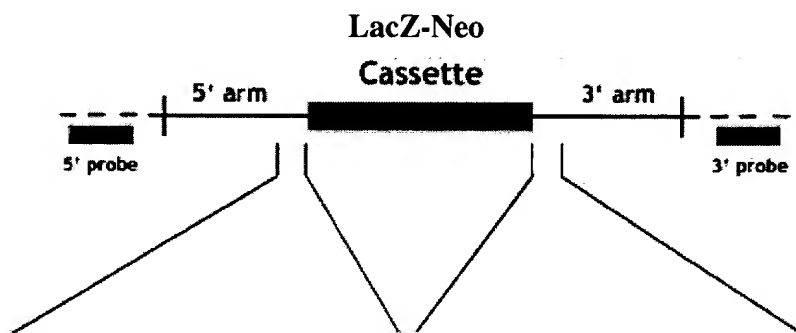
Targeting Vector* (genomic sequence)

Construct Number: 2762

Arm Length:

5': 5 kb

3': 0.5 kb



5' >TTTAGGATCTCAAGAGCATGC
TGACGTCATTTATGTGTTCCATC
AGATACTGACAGAGATCATAAACA
TTTAACTCATTGATTATATGTTGA
GAGTTGTCCCTCAAGAACCAATGG
CCAAACATCCACTGAGGATACACG
GAAGCTTAGAAAATCTCTAATTAA
AATCCTGACATAATGGAAGTGCTC
ACAAACCAGCC<3'
(SEQ ID NO:2)

5' >GCCAACCTGTCCCTCTCTGAC
ATCTTGGTGTGTGTCATGTGCATC
CCTTTTACGGTCATCTACACTCTG
ATGGACCACTGGGTATTTGGGAAC
ACTATGTGTAAACTCACTTCCTAC
GTGCAAAGTGTCTCAGTTTCTGTG
TCCATATTCTCCCTTGTGTTGATT
GCTATTGAACGATATCAGCTGATT
GTGAACCCCCG<3'
(SEQ ID NO:3)

Targeting Vector

Endogenous Locus

Not drawn to scale

FIGURE 2B